

material properties (typical v	alues)
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Max. Operating Temperature 2)	T max	180	°C	
Density	ρ	7.55	g/cm ³	
Permeability 20°C	μr	1.05		
Vickers Hardness		500 - 600	HV	
Modulus of Elasticity	E	150 - 200	kN/mm ²	
Copressive Strength		1000 - 1100	N/mm ²	
Flexural Strength		250	N/mm ²	
Expansion Coefficient		-	10 ⁻⁶ /K	
Expansion Coefficient in direction of	上	-3 - 0	10 ⁻⁶ /K	
anisotropy	//	4 - 9	10 ⁻⁶ /K	
Specific Electric Resistance	ρel	1.2 - 1.6	μΩ˙m	
Specific Heat Capacity	С	440	J/(kg [·] K)	
Thermal Conductivity	λ	8.0 - 10.0	W/m [·] K	

¹⁾ The shown temperature coefficients are nominal reference values only . They can vary for different temperatures and don't need to be linear.

Note:

The above plotted graphs are idealized and represent theoretical values of the material. Shown are curves according nominal values based on uncoated material samples according to IEC 60404-5. Material and magnetic data represent typical data that may vary due to product shape, size and coating. Please contact Bomatec regarding specific requirements for your application.

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²⁾ The maximum operating temperature is depending on the magnet shape, size and on the specific application.